

Recombinant Human ATP6V1G3 293 Cell Lysate

Cat. No. ATP6V1G3-8574HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for ATPase, H ⁺ transporting, lysosomal 13kDa, V1 subunit G3 (ATP6V1G3), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name [ATP6V1G3 ATPase, H⁺ transporting, lysosomal 13kDa, V1 subunit G3 \[Homo sapiens \]](#)

Official Symbol ATP6V1G3

Synonyms ATP6V1G3; ATPase, H⁺ transporting, lysosomal 13kDa, V1 subunit G3; ATPase, H⁺ transporting, lysosomal 13kD, V1 subunit G isoform 3 , ATPase, H⁺ transporting, lysosomal 13kDa, V1 subunit G isoform 3; V-type proton ATPase subunit G 3; ATP6G3; Vma10; V-ATPase G3 subunit; V-ATPase G subunit 3; V-ATPase subunit G 3; V-ATPase 13 kDa subunit 3; vacuolar proton pump G subunit 3; vacuolar proton pump subunit G 3; vacuolar proton pump, subunit G3; vacuolar ATP synthase subunit G 3; ATPase, H⁺ transporting, lysosomal (vacuolar proton pump) subunit G3; MGC119810; MGC119813;

Gene ID [127124](#)

mRNA Refseq [NM_133262](#)

Protein Refseq [NP_573569](#)

UniProt ID [Q96LB4](#)

Chromosome Location 1q32.2

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Pathway

Collecting duct acid secretion, organism-specific biosystem; Collecting duct acid secretion, conserved biosystem; Epithelial cell signaling in Helicobacter pylori infection, organism-specific biosystem; Epithelial cell signaling in Helicobacter pylori infection, conserved biosystem; Insulin receptor recycling, organism-specific biosystem; Iron uptake and transport, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;

Function

ATPase binding; hydrogen-exporting ATPase activity, phosphorylative mechanism; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances;